

CJTF-76 Collateral Investigation Board

CASA-212 Blackwater 61 – N960BW 27 November 2004



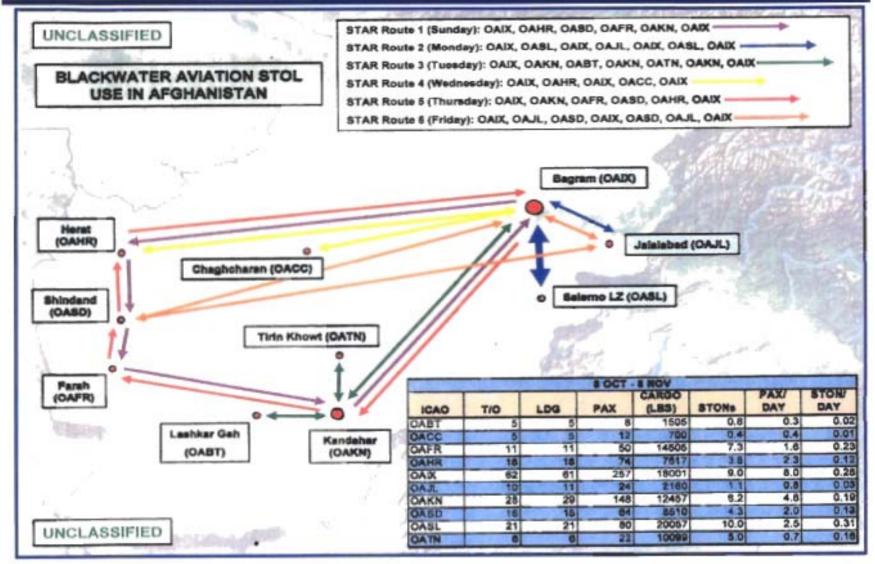
BOTTOM LINE

The mishap crew flew the mishap aircraft into a box canyon and impacted the terrain at 14,650 feet MSL on the northern face of a 16,580 feet MSL ridgeline.





BACKGROUND STAR ROUTES





BACKGROUND

AIRCREW DATA

		Arrival Date
	Noel B. English, Captain	14 Nov 04
	 37 year old Airline Transport Pilot 	
	 5753hrs total, 898hrs in CASA 212 	
	33.2 hrs in Afghanistan	
	Loren D. Hammer, First Officer	14 Nov 04
	 35 year old Airline Transport Pilot 	
	 2262hrs total, 453hrs in CASA 212 	
	 33.1 hrs in Afghanistan 	
•	Melvin E. Rowe, Flight Mechanic	4 Oct 04
	 43 year old Airframe & Powerplant Mechanic 	

- All crewmembers fully qualified
- No unusual habits, behavior, or stress on the part of the mishap crew



ACCIDENT SUMMARY

- Blackwater 61 (BW-61) was executing a JMR from Bagram AF to the Western Provinces carrying three passengers and 455 lbs of cargo
- BW-61 departed north to fly through the Bamian Valley
- BW-61 unsuccessfully attempted a 16,580 ft ridgeline crossing, impacting terrain at 14,650 ft
- Overdue aircraft procedures began 3:05 hours after expected arrival at Farah; recovery complete after 74:19 hours



CREW REST

- No crew rest or duty day problems noted on day of mishap
- Minimum crew rest: 10 hours
 - Mishap crew went to bed 2000L on 26 Nov 04
 - Crew woke 0430L on 27 Nov 04
- Crew pick-up at 0615L; due back to Bagram 1330L



PREFLIGHT

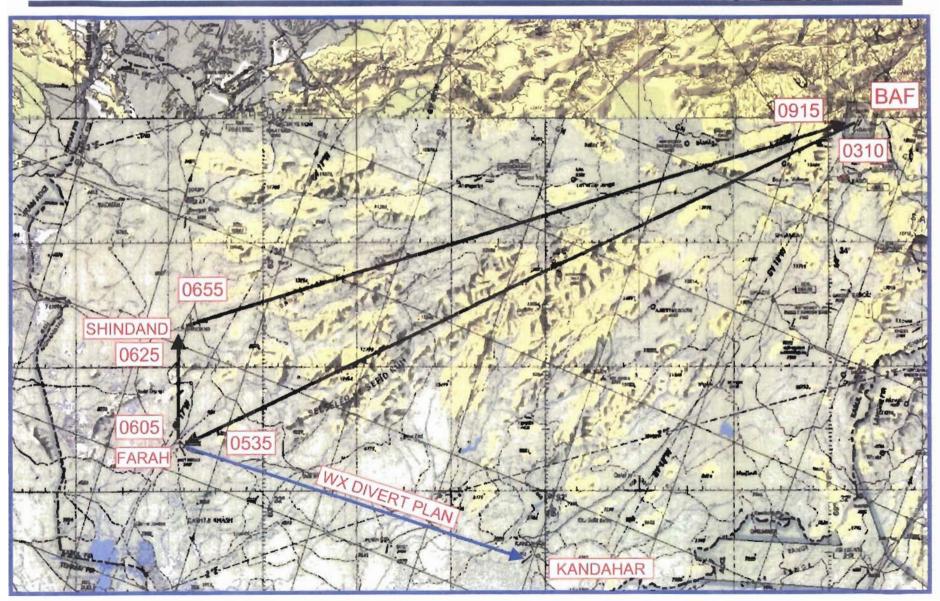
27 Nov 04

0145Z: Mishap Crew (MC) departed billeting, had breakfast, then stopped briefly for threat briefings enroute company operations

0230Z: MC met with fellow aircrew members and company operations officer to discuss weather divert options



JMR #16695





FLIGHT

0245Z: MC boarded passengers, started engines and began

taxi roll

0304Z: MC stopped MA to load additional passenger

0308Z: MA took off and assumed WNW departure heading

0313Z: Radar track lost on MA 9.5 NM northwest of Bagram

Airfield

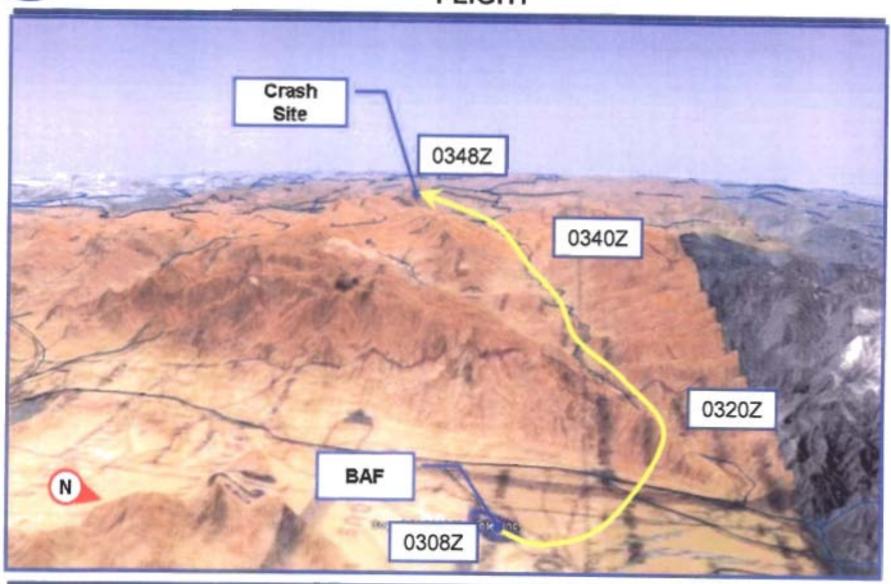


WEATHER

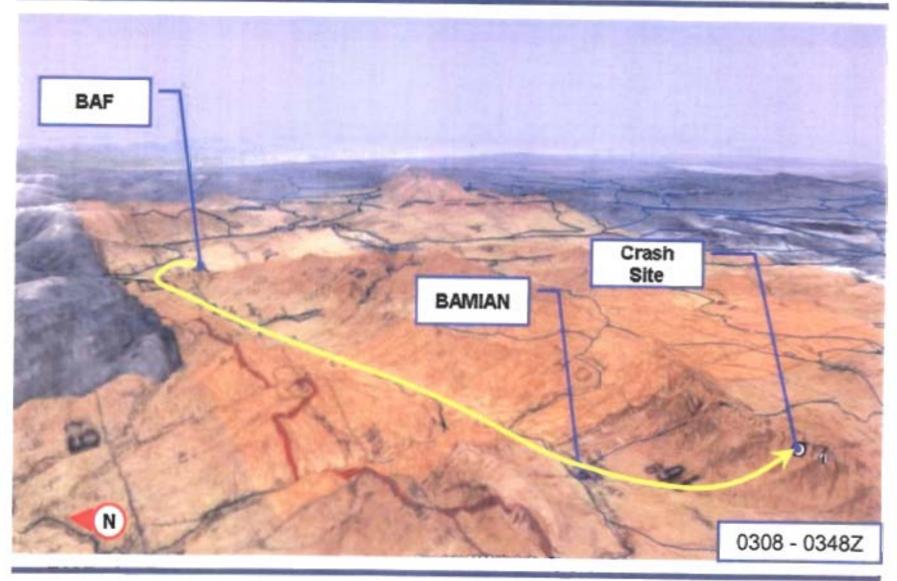
- Forecast/observed weather
 - Bagram clear
 - Gusting winds, blowing dust at Western Bases
 - Light winds, scattered clouds enroute
 - No Hazards



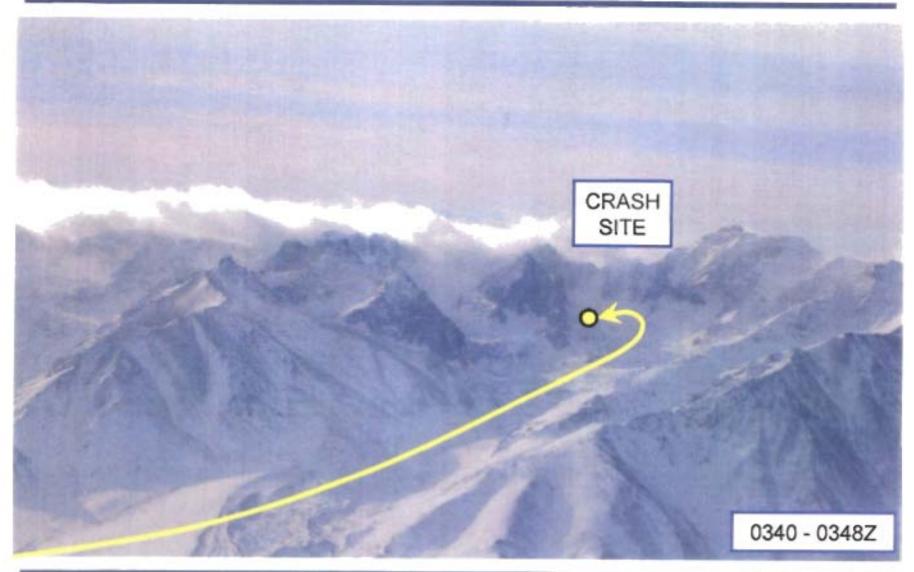
FLIGHT



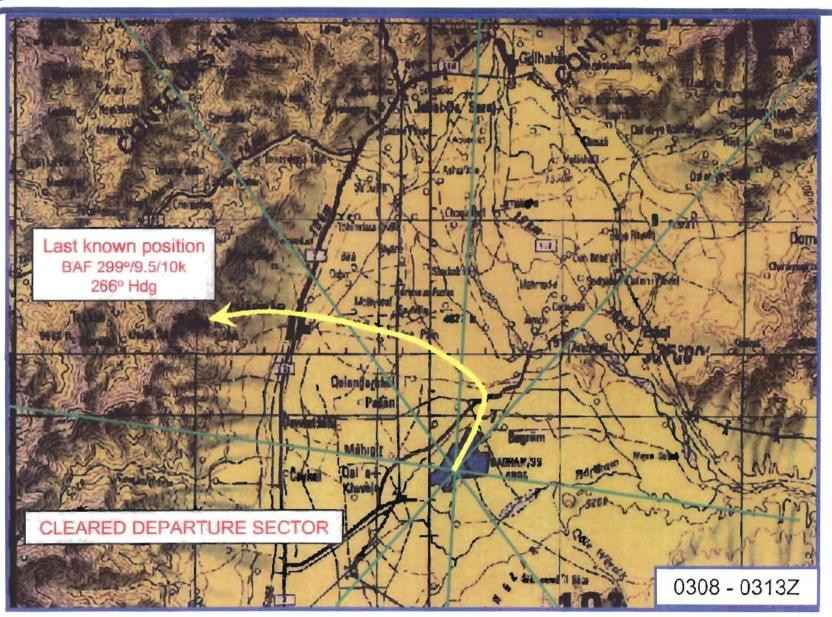




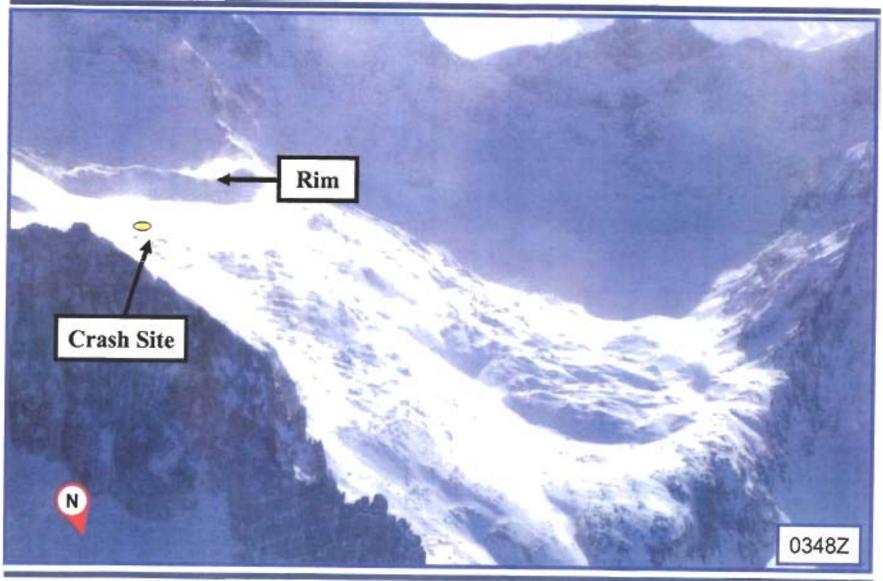




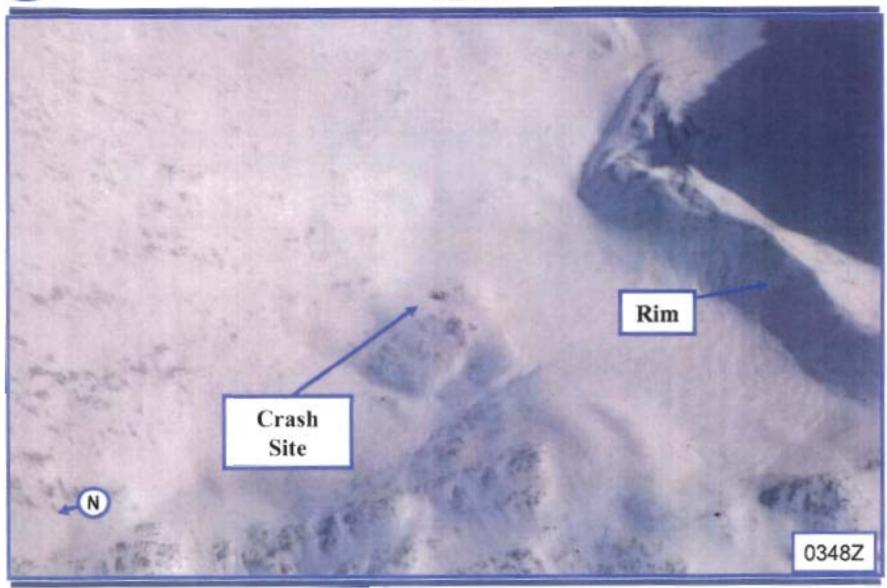






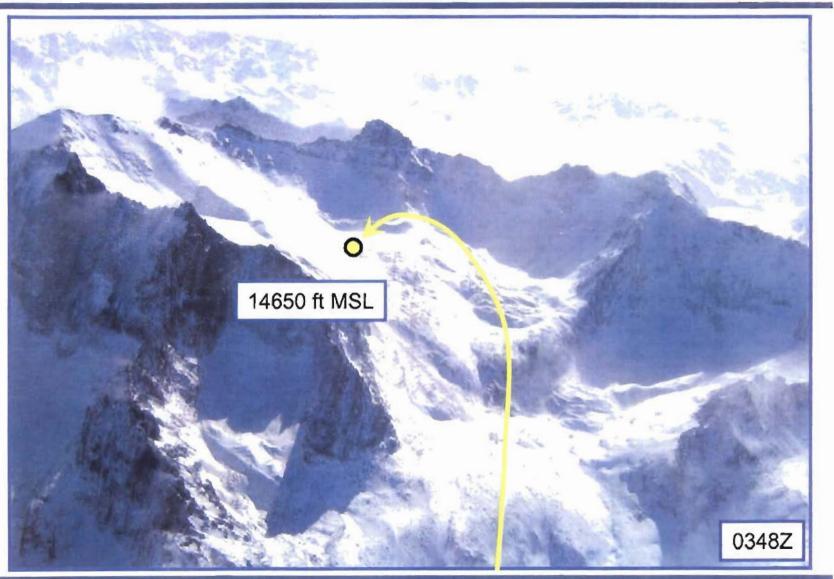








FLIGHT

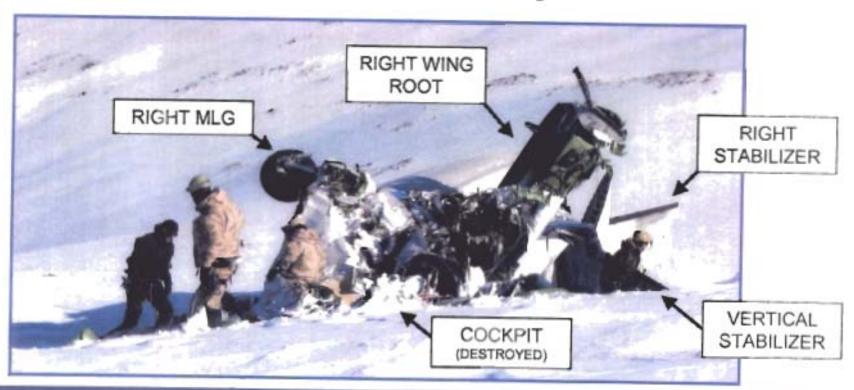




IMPACT

0348Z (approx): The aircraft impacted the terrain, skidding several hundred feet.

Right wing struck terrain and was sheared off; aircraft cartwheeled, destroying cockpit, breaking fuselage, and folding left wing under fuselage.





SEARCH AND RESCUE

0535Z: Blackwater 61 scheduled to arrive at Farah

0900Z: Passenger at Farah notified CJTF-76 CJ4 that MA had not arrived. CJTF-76 CJ4 notified Bagram ATOC

0900Z – 0930Z: ATOC attempted to locate MA at likely divert airfields

0930Z: ATOC informed 455 AEW Command Post (CP) that MA was overdue

0935Z: CP initiated overdue/missing aircraft checklist

xxxxZ: CP contacted RCC to report missing aircraft

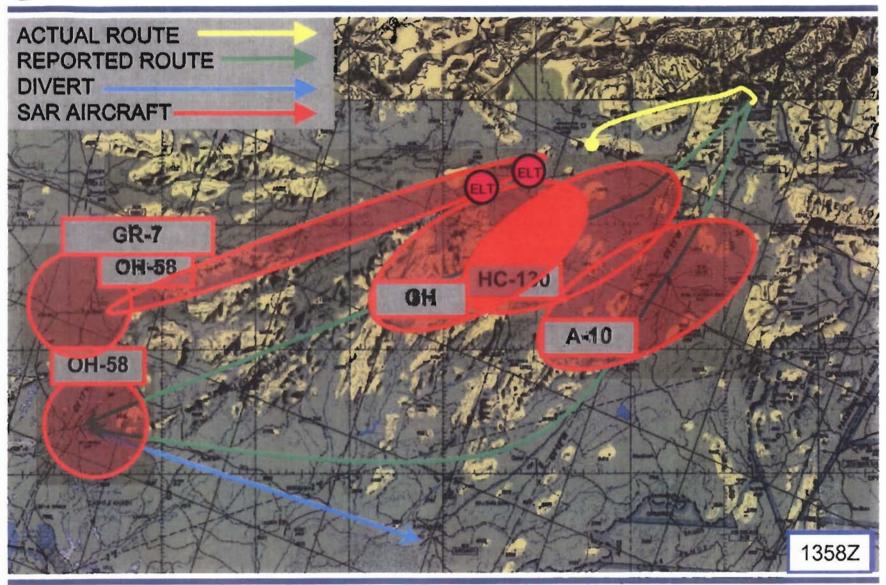
1012Z: CJTF-76 Rescue Coordination Center (RCC) issued missing aircraft notification

1012-1018Z: RCC gathered and distributed flight information

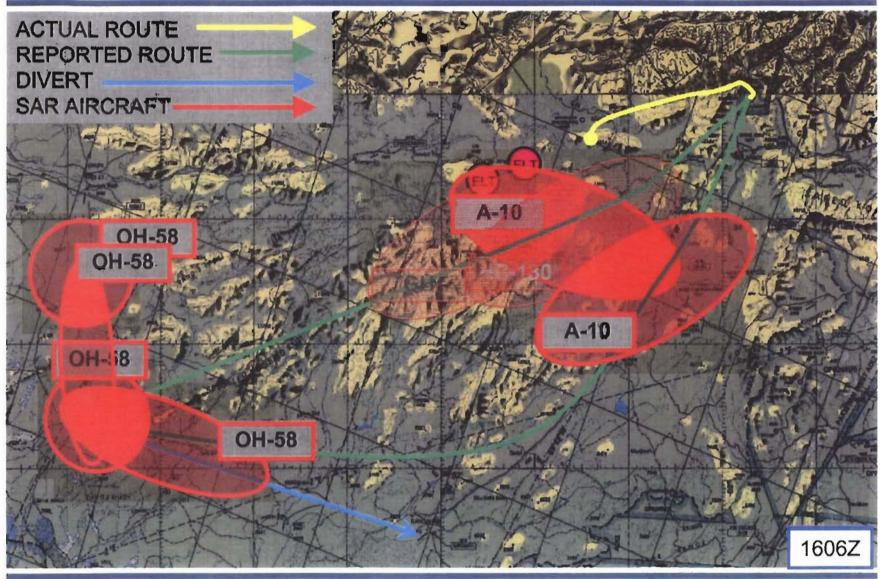


- 1026Z: Air Support Operations Center directed radio search by airborne aircraft
- 1030Z: BAF Radar Control had radar contact of unidentified aircraft
- 1034Z: JSRC Requested Last Known Position Information from RCC "Left Bagram at 0310Z destination Farah"
- 1046Z: RCC Reported PA Operations had no flight plan information
- 1050-1110Z (approx): RCC executed missing aircraft notification process
- 1119Z: JSRC issued scramble order to search and rescue (SAR) HC-130 from K2
- 1127Z: CJTF-76 Joint Operations Center made search and rescue request to Joint Search and Rescue Center (JSRC)
- 1128Z: JSRC accepted SAR mission and assumed coordination authority

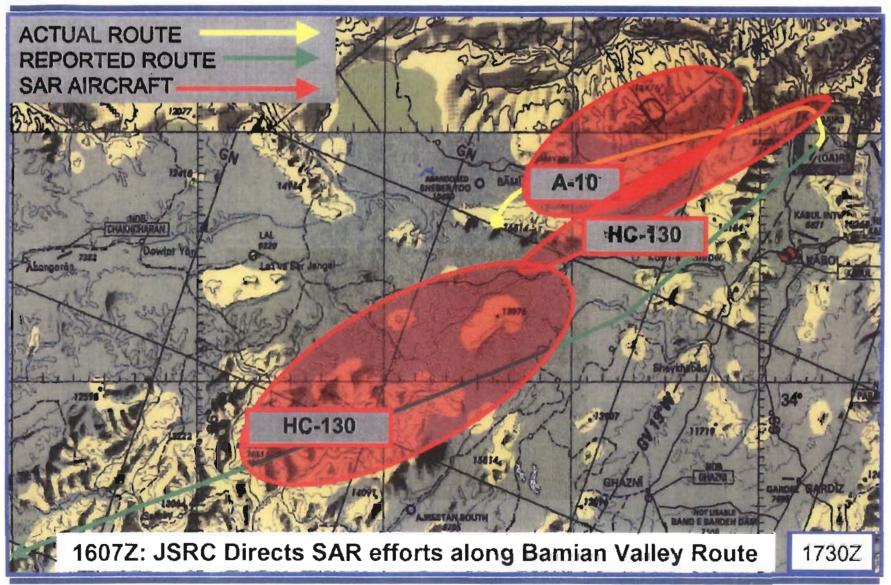






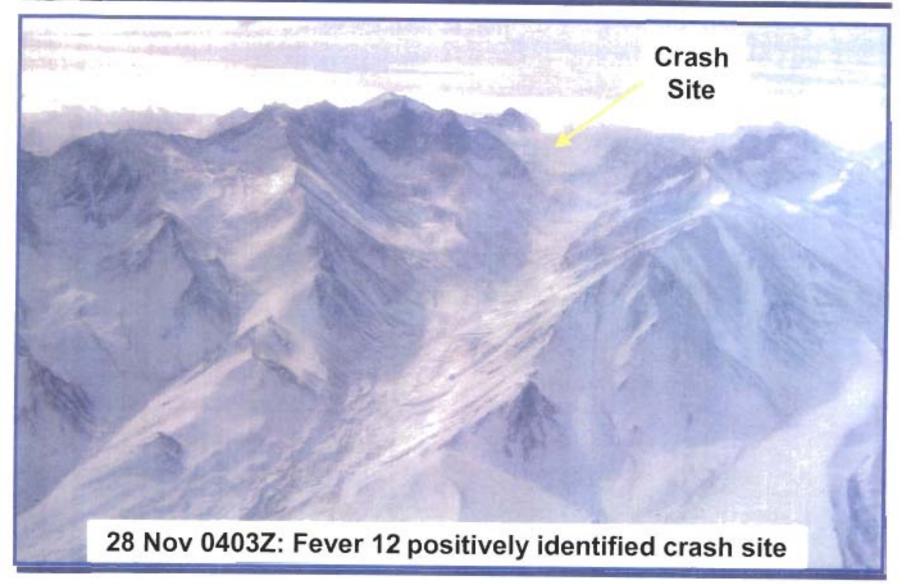






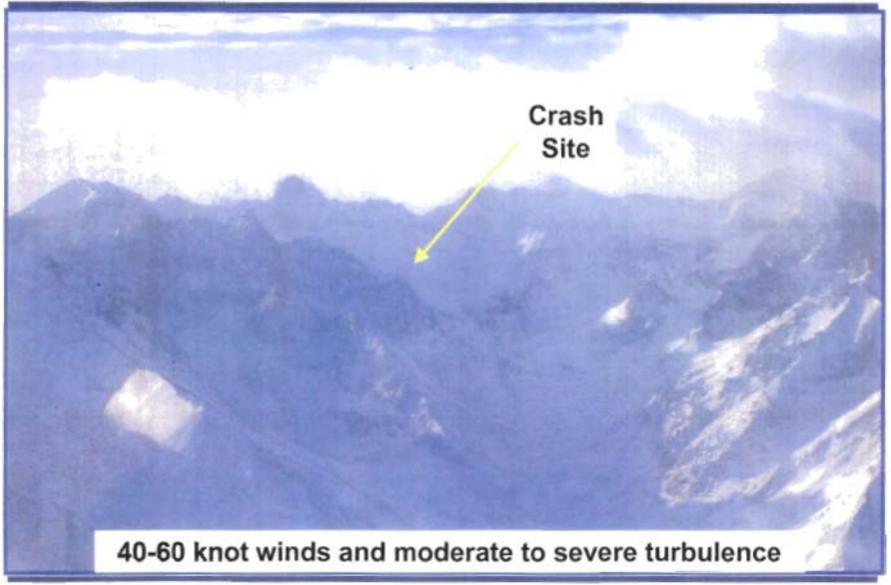


SEQUENCE OF EVENTS SEARCH AND RESCUE – WRECKAGE DISCOVERY





SEQUENCE OF EVENTS SEARCH AND RESCUE - RESCUE ATTEMPTS





SEARCH AND RESCUE

- 28 Nov Special Forces Team moved to Bagram
- 29 Nov Weather at crash site and Bagram prevented rescue operations

Rescue/Recovery teams consolidated equipment at Bagram and planned recovery mission from Bamian Airfield.



SEQUENCE OF EVENTS SEARCH AND RESCUE



0300Z: CH-47s launched from Bagram for Bamian Airfield

0412Z: CH-47s departed Bamian for crash site



SEARCH AND RESCUE

0439Z: CH-47s arrived at crash site, recover 6 bodies, CVR

0549Z: CH-47s departed crash site for Bagram





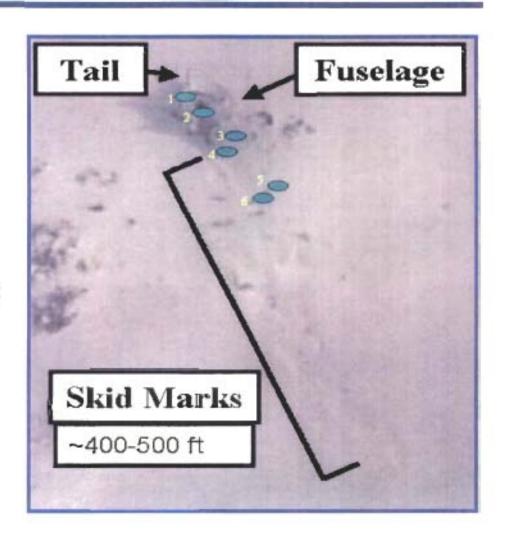
RECOVERY OF REMAINS

- Miller survived initial impact
 - Smoked cigarette, urinated twice, unrolled sleeping bags
 - Found lying on ramp in aft portion of fuselage wreckage
 - Suffered internal bleeding
 - Presumed to have died within hours of crash
- Grogan strapped in seat in fuselage
- McMahon strapped in seat under wing
- Rowe (MFM) buried in snow in front of wreckage
- 5. Hammer

buried in snow 150

6. English

ft from wreckage





FACTUAL INFORMATION MEDICAL

Pathology

- Autopsies performed at Port Mortuary, Dover AFB 3 Dec 04
- All 3 crew members sustained immediately fatal injuries on impact
- LTC McMahon & CW2 Grogan also sustained immediately fatal injuries on impact
- SPC Miller had lung and abdominal injuries, a broken rib, significant internal bleeding, and some minor head injuries



BOARD CHARTER

Establish verifiable time-line for the events related to the crash and search, rescue, and recovery operations, commencing with the estimated time of departure and ending with the recovery and return of the remains at Bagram Airfield, Afghanistan

Timeline previously discussed



WAY AHEAD

- BRIEF CFACC
- BRIEF AMC COMMANDER
- PROVIDE THIS INFORMATION TO AMC CONTRACTING
- PROVIDE THIS INFORMATION TO USAF AND US ARMY SAFETY CENTERS
- CONDUCT FAMILY BRIEFINGS
- IMPLEMENT BOARD RECOMMENDATIONS
- AMC APPROVES CONTRACTOR TO RESUME FLIGHT OPERATIONS



COLLATERAL INVESTIGATION BOARD

